

# **NANOGrav: progress toward detecting a SMBHB stochastic background**

*Wednesday 13 November 2019 14:00 (5 minutes)*

The North American Nanohertz Observatory for Gravitational Waves (NANOGrav) has recently released its 12.5 year data set. I will summarize the GW results and their implications for limits on Supermassive Black Hole Binaries through hierarchical galaxy merging. These limits are starting to substantially constrain models for SMBHB. We anticipate detection of the stochastic background of GWs from these sources within the next 3 - 7 years.

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**Session Classification:** Lightning talks